

SENSOR VALVE COMBO INSTALLATION

QUICK REFERENCE

SENSOR VALVE EQUIPMENT

A valve box with sensor provisions can be installed in the dental facility to monitor the line pressures downstream of the manifold.

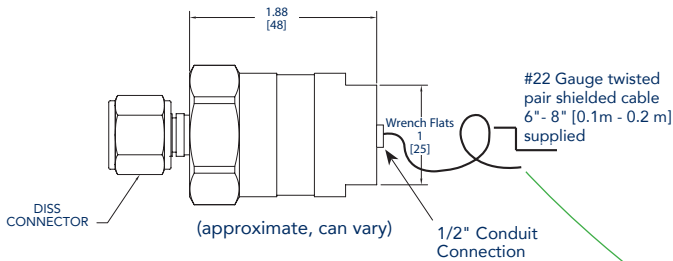
Each sensor valve combo is supplied with a street-elbow (1/8" MNPT x 1/4" FNPT) to connect a DISS fitting (one for each valve). The elbow is to be installed on site with the gas specific pressure sensor. Each sensor will have a terminal block to connect the negative and positive wires. The terminal blocks shall be assembled into the valve box.

Once the sensors are installed into the valve box, they can be wired back to the manifold. The cable used shall be Belden #8451 or equivalent #22 gauge shielded twisted pair (for multiple sensors a multi-conductor shielded twisted pair cable should be used).

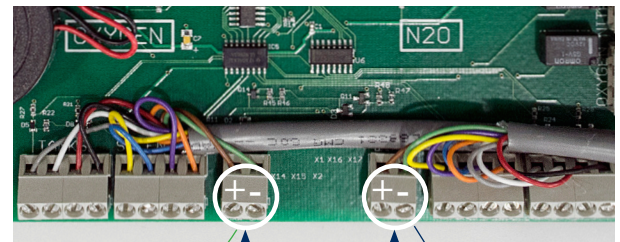
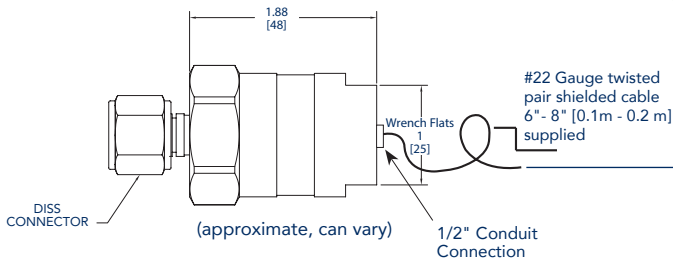
CONNECTING THE REMOTE SENSOR WIRES TO THE MANIFOLD

- Unplug the manifold power connector. Open the Manifold door and locate the plate covering the circuit board. Remove bolts and take out the protective cover.
- Locate the sensor wires on the manifold labelled "LINE +/-". There is one set for each gas.
- Loosen the screw (counter clockwise) that holds the wire in place. **GENTLY remove the wires from the location and cover/tape to prevent contact with the CB.**

Local/Remote Sensor – OXYGEN



Local/Remote Sensor – N2O



- Identify the appropriate gas sensor wire and connect it into the appropriate terminal, taking attention to the polarity. *Connect power to Manifold and test that the pressure is being read at the zone valve box. This can be done by closing a valve and bleeding downstream.*

